

SEQUENCE LISTING

<110> HAGIWARA, Masatoshi

<120> Method for controlling SR protein phosphorylation, and antiviral agents whose active ingredients comprise agents that control SR protein activity

<130> 6235-76051-01

<140>

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<150> JP 2003-435085

<151> 2003-12-26

<150> PCT/JP2004/019393

<151> 2004-12-24

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<170> PatentIn version 3.1

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Phe	Asp	Val	Leu	Val	Glu	Lys	Tyr	Gly	Trp	Pro	His	Glu	Asp	Ala	Ala	
			645					650						655		
cag	ttt	aca	gat	ttc	ctg	atc	ccg	atg	tta	gaa	atg	gtt	cca	gaa	aaa	2016
Gln	Phe	Thr	Asp	Phe	Leu	Ile	Pro	Met	Leu	Glu	Met	Val	Pro	Glu	Lys	
			660					665					670			
cga	gcc	tca	gct	ggc	gaa	tgt	cgg	cat	cct	tgg	ttg	aat	tct			2058
Arg	Ala	Ser	Ala	Gly	Glu	Cys	Arg	His	Pro	Trp	Leu	Asn	Ser			
		675					680					685				

<210> 4
 <211> 686
 <212> PRT
 <213> Homo sapiens

<400> 4
 Met Ser Val Asn Ser Glu Lys Ser Ser Ser Ser Glu Arg Pro Glu Pro
 1 5 10 15
 Gln Gln Lys Ala Pro Leu Val Pro Pro Pro Pro Pro Pro Pro Pro
 20 25 30
 Pro Pro Pro Pro Leu Pro Asp Pro Thr Pro Pro Glu Pro Glu Glu Glu
 35 40 45
 Ile Leu Gly Ser Asp Asp Glu Glu Gln Glu Asp Pro Ala Asp Tyr Cys
 50 55 60
 Lys Gly Gly Tyr His Pro Val Lys Ile Gly Asp Leu Phe Asn Gly Arg
 65 70 75 80
 Tyr His Val Ile Arg Lys Leu Gly Trp Gly His Phe Ser Thr Val Trp
 85 90 95
 Leu Cys Trp Asp Met Gln Gly Lys Arg Phe Val Ala Met Lys Val Val
 100 105 110
 Lys Ser Ala Gln His Tyr Thr Glu Thr Ala Leu Asp Glu Ile Lys Leu
 115 120 125
 Leu Lys Cys Val Arg Glu Ser Asp Pro Ser Asp Pro Asn Lys Asp Met
 130 135 140
 Val Val Gln Leu Ile Asp Asp Phe Lys Ile Ser Gly Met Asn Gly Ile
 145 150 155 160
 His Val Cys Met Val Phe Glu Val Leu Gly His His Leu Leu Lys Trp
 165 170 175
 Ile Ile Lys Ser Asn Tyr Gln Gly Leu Pro Val Arg Cys Val Lys Ser
 180 185 190
 Ile Ile Arg Gln Val Leu Gln Gly Leu Asp Tyr Leu His Ser Lys Cys
 195 200 205
 Lys Ile Ile His Thr Asp Ile Lys Pro Glu Asn Ile Leu Met Cys Val
 210 215 220
 Asp Asp Ala Tyr Val Arg Arg Met Ala Ala Glu Pro Glu Trp Gln Lys
 225 230 235 240
 Ala Gly Ala Pro Pro Pro Ser Gly Ser Ala Val Ser Thr Ala Pro Gln
 245 250 255
 Gln Lys Pro Ile Gly Lys Ile Ser Lys Asn Lys Lys Lys Lys Leu Lys
 260 265 270
 Lys Lys Gln Lys Arg Gln Ala Glu Leu Leu Glu Lys Arg Leu Gln Glu
 275 280 285
 Ile Glu Glu Leu Glu Arg Glu Ala Glu Arg Lys Ile Ile Glu Glu Asn
 290 295 300
 Ile Thr Ser Ala Ala Pro Ser Asn Asp Gln Asp Gly Glu Tyr Cys Pro

305		310		315		320
Glu Val Lys Leu Lys Thr Thr Gly Leu Glu Glu Ala Ala Glu Ala Glu						
		325		330		335
Thr Ala Lys Asp Asn Gly Glu Ala Glu Asp Gln Glu Glu Lys Glu Asp						
		340		345		350
Ala Glu Lys Glu Asn Ile Glu Lys Asp Glu Asp Asp Val Asp Gln Glu						
		355		360		365
Leu Ala Asn Ile Asp Pro Thr Trp Ile Glu Ser Pro Lys Thr Asn Gly						
		370		375		380
His Ile Glu Asn Gly Pro Phe Ser Leu Glu Gln Gln Leu Asp Asp Glu						
		385		390		395
Asp Asp Asp Glu Glu Asp Cys Pro Asn Pro Glu Glu Tyr Asn Leu Asp						
		405		410		415
Glu Pro Asn Ala Glu Ser Asp Tyr Thr Tyr Ser Ser Ser Tyr Glu Gln						
		420		425		430
Phe Asn Gly Glu Leu Pro Asn Gly Arg His Lys Ile Pro Glu Ser Gln						
		435		440		445
Phe Pro Glu Phe Ser Thr Ser Leu Phe Ser Gly Ser Leu Glu Pro Val						
		450		455		460
Ala Cys Gly Ser Val Leu Ser Glu Gly Ser Pro Leu Thr Glu Gln Glu						
		465		470		475
Glu Ser Ser Pro Ser His Asp Arg Ser Arg Thr Val Ser Ala Ser Ser						
		485		490		495
Thr Gly Asp Leu Pro Lys Ala Lys Thr Arg Ala Ala Asp Leu Leu Val						
		500		505		510
Asn Pro Leu Asp Pro Arg Asn Arg Asp Lys Ile Arg Val Lys Ile Ala						
		515		520		525
Asp Leu Gly Asn Ala Cys Trp Val His Lys His Phe Thr Glu Asp Ile						
		530		535		540
Gln Thr Arg Gln Tyr Arg Ser Ile Glu Val Leu Ile Gly Ala Gly Tyr						
		545		550		555
Ser Thr Pro Ala Asp Ile Trp Ser Thr Ala Cys Met Ala Phe Glu Leu						
		565		570		575
Ala Thr Gly Asp Tyr Leu Phe Glu Pro His Ser Gly Glu Asp Tyr Ser						
		580		585		590
Arg Asp Glu Asp His Ile Ala His Ile Ile Glu Leu Leu Gly Ser Ile						
		595		600		605
Pro Arg His Phe Ala Leu Ser Gly Lys Tyr Ser Arg Glu Phe Phe Asn						
		610		615		620
Arg Arg Gly Glu Leu Arg His Ile Thr Lys Leu Lys Pro Trp Ser Leu						
		625		630		635
Phe Asp Val Leu Val Glu Lys Tyr Gly Trp Pro His Glu Asp Ala Ala						
		645		650		655

Gln Phe Thr Asp Phe Leu Ile Pro Met Leu Glu Met Val Pro Glu Lys
660 665 670

Arg Ala Ser Ala Gly Glu Cys Arg His Pro Trp Leu Asn Ser
675 680 685

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<211> 29
<212> PRT
<213> Artificial

<220>
<223> a substrate polypeptide for SRPK

<400> 5
Arg Ser Pro Ser Tyr Gly Arg Ser Arg Ser Arg Ser Arg Ser Arg Ser
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Arg Ser Arg Ser Arg Ser Asn Ser Arg Ser Arg Ser Tyr
20 25